

CLAIMS

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1. Safety module construction being easily transportable in a folded down position consisting of an essentially right angled horizontal floor frame construction (V) for positioning on the ground, provided with a upright relatively high safety frame mountable thereupon forming a wall construction (W), for keeping the public at a safe distance from an object, whereby the height and the width of the upright wall construction (W) in a mounted position projecting above the horizontal floor frame construction (V) comprises such dimensions, that in disassembled position of the safety module, in other word as both frames (W,V) are positioned completely down upon each other, the lengths and the widths of

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the horizontal floor frame construction (V) and of the upright wall construction (W) nearly mutually correspond in their overall dimensions.

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2. Safety module construction according to claim 1, characterized in that each individual frame (V,W) of the safety module construction consists of a framework closed in itself of interconnected metal edge profiles (1,2,12,26) which may be provided or not with reinforcement profiles (3, 4, 13, 14) positioned between the edge profiles.

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3. Safety module construction according to claim 2, characterized in that the rear side of the upright wall construction (W) with respect to the floor frame (V) is shored by at least one shore (16, 17) positioned under an angle, whereby the top end is connected to the top side of the wall construction (W) and whereby the bottom end of the shore is connected to the floor frame (V) adjacent to the rear edge profile (2).

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4. Safety module construction according to claim 3, characterized in that a shore with its top and bottom side is hinged connected to the wall construction (W)

and the floor frame (V) respectively, e.g. by means of detachable bolt connections means so that the wall construction may be folded up- and downwardly into its mounted and disassembled position respectively, without the necessity for mounting or disassembling the shore.

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5. Safety module construction according to claim 4, characterized in that the wall construction (W) may be flatly positioned down with its front wall side upon the floor frame (V) by disassembling the bottom edge (12) of the wall construction and remove it to the rear side of the floor frame (V), whereby no disassembling

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of the shore (16, 17) takes place while it hinges around a connection point (18) which is located at some distance (19) above the edge circumference of the floor frame (V).

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6. Safety module construction according to claim 5, characterized in that the wall construction (W) being positioned down flatly upon the floor frame (V) in disassembled position receives the shore 16 completely in a free space formed between the edge profiles which results in the fact that the safety module construction after its disassembly on its top side comprises no parts of the shores (16, 17) protruding outside the framework of edge profiles, in order to make a number of safety module constructions easily stackable, e.g. for transport.

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7. Safety module construction according to claim 6, characterized in that the free space for receiving the shore is principally formed in an edge or in a reinforcement profile (14).

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8. Safety module construction according to claims 6 or 7, characterized in that the module in its disassembled position comprises a total height being equal to the accumulated thicknesses of the floor frame (V) and the wall construction (W).

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9. Safety module construction according to claim 6, characterized in that a locking element (19) is provided for on the circumferential profile (11, 12, 26) of the wall

construction (W) or upon an edge profile (1,2) of the floor frame (V) such that during disassembly and stacking upon each other of two safety module constructions, this locking element (19) fitted to the lower safety module construction extends until into the opening of a U-shaped profile of the safety module construction on top, thus preventing mutual displacement of stacked safety module constructions.

5 10. Safety module construction according to claim 5, characterized in that the bottom edge (12) of the wall construction (W) is provided with at least one downwardly extending guide element (27) and the floor frame (V) is provided with a guide channel (30) whereby the guide element (27) allowed to be displaced through the guide channel (30) during folding upward and downward respectively of the wall construction (W) in its mounted and disassembled position.

15 11. Safety module construction according to claim 10, characterized in that the wall construction (W) is provided with two guide elements (27) and the floor frame (V) is provided with two guide channels (30), whereby the two guide elements are mutually distantly spaced to such an extent, that during folding upwards and downwards respectively of the wall construction (W) the bottom edge (12) principally remains parallel to the longitudinal central axis of the floor frame (V).

20 25. Safety module construction according to claim 5, characterized in that the bottom edge (12) of the wall construction (W) is provided with at least one guide wheel (31) and that the floor frame (V) is provided with at least one guide rail (32), such that during the displacement of the bottom edge (12) of the wall construction (W) during its folding upward or downward respectively thereof the guide wheel rolls over de guide rail (32).

30 13. Safety module construction according to claim 12, characterized in that the bottom edge (12) of the wall construction (W) is provided with two mutually distantly spaced guide wheels (31) and with two mutually distantly spaced

guide elements (27) and whereby the floor frame is provided with two guide channels (30) and two guide rails (32), such that during upward or downward folding of the wall construction (W) the guide wheels (31) roll over the guide rails (32) and the guide elements (27) are moving through the guide channels (30).

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14. Safety module construction according to claim 13, characterized in that the guide wheels (31) are mounted adjacent to the guide elements (27) and that accordingly the guide rails (32) are correspondingly mounted adjacent to the

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guide channels (30).

15. Safety module construction according to claim 14, characterized in that the guide wheels (31) and the guide elements (27) are mounted on both ends of the bottom edge (12) adjacent to the upright edge profiles (11) of the wall

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construction (W).

16. Safety module construction according to claim 15, characterized in that the guide rails (32) at their ends nearby the position of the bottom edge (12) of the wall construction (W) in its mounted position, is provided with recesses (33) for receiving the guide wheels (31), in such a way that in the mounted position of the wall construction (W) it is no longer supported by the guide wheels (31).

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17. Safety module construction according to one or more of the preceding claims 10 - 16, characterized in that a locking element (31) is mounted on the rear side of the guide element (27) which locks the wall construction (W) in its mounted position against being folded down, or being pushed down.

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18. Safety module construction according to claim 17, characterized in that the locking element (21) consists of a bolt and nut connection which also serves as a coupling with adjacent safety module constructions.

19. Safety module construction according to one or more of the preceding claims 10 - 18, characterized in that the guide element (27) comprises a hooked element (28) that in its mounted position of the wall construction (W) has a principally horizontal position and thereby extending until under a protruding edge (29) of the floor frame (V) to prevent lifting up of the wall construction (W).
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20. Safety module construction according to anyone of the preceding claims, characterized in that the panel wall surface (15) consists of a number of closely connected panel segments which are entirely received within the profile edge circumference (11, 12, 26) of the wall construction (W) and which cannot be removed therefrom without disassembling the wall construction.
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21. Safety module construction according to anyone of the preceding claims, characterized in that the bottom edge (12) of the floor frame (V) is provided with openings (7, 8, 9, 10) at several locations around its outline for transport of the module by means of a fork-lift truck.
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22. Safety module construction according to anyone of the preceding claims, characterized in that the upright edge profiles (11) of the wall construction are provided with locking members for being mutually intercoupled with corresponding locking members of an adjacent module construction.
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23. Safety module construction according to anyone of the preceding claims, characterized in that the width of the wall construction (W) is less than the width of the floor frame (V) resulting in the fact that after intercoupling of two safety module constructions an opening is created between adjacent wall constructions (W).
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24. Safety module construction according to anyone of the preceding claims, characterized in that the wall construction (W) is provided with one or more hoisting eyes (25) to allow for folding the wall construction (W) upward or downward by means of hoisting means.
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25. Safety module construction according to anyone of the preceding claims, characterized in that the bottom edge (12) of the wall construction (W) is provided at its bottom side with one or more stop elements (34) which stops engage the longitudinal central profile of the floor frame (V) and so prevent folding down or pushing down the wall construction (W).
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26. Safety module construction according to anyone of the preceding claims, characterized in that the top edge (26) of the wall construction (W) over its full length is provided with a multi pointed anti clamber protectional device (22, 23).
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27. Safety module construction according to one or more of the preceding claims, characterized in that the anti clamber protectional device (22, 23) consists of a hollow tube which at its circumference are provided with a number of separate anti clamber elements longitudinally adjacent to each other, optionally rotatable around the hollow tube and whereby each anti clamber element consists of a hollow sleeve of a short length whereupon a sheet-shaped pointed (23) sheet parts are mounted in a circumferential direction.
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28. Safety module construction according to one or more of the preceding claims, characterized in that a wall panel (15) is formed as a sandwich panel, which on both sides consists of sheet shaped metal having in between a fire-resistant layer.
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29. Safety module construction according to claim 12, characterized in that the sandwich wall panels (15) are provided with an exterior aluminium sheet.
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30. Safety module construction according to anyone of the preceding claims, characterized in that its dimensions in disassembled folded down position of the frames (L x W x H) are: 350 x 255 x 230 cm.
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31. Safety module construction according to claim 14, characterized in that in folded down position for storage the accumulated height of the floor and wall construction amounts to less than 2 x 10 cm by a length x width of 350 x 255 cm.

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32. Safety module construction consisting of a horizontal floor frame (V) and a vertical wall construction (W) positioned thereupon having a completely closed wall construction surface (15), the bottom side (12) of the frame wall (W) being permanently and stable connected to the floor frame (V) and further both frames (V and W) being performed according to anyone of the preceding claims 1-30.

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33. Safety module construction according to anyone of the preceding claims, characterized in that the top side of the floor frame (V) at its front side is provided with a metal floor plate (S) mounted thereupon and being perforated or not.

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34. Permanently upright safety module construction consisting of a horizontal floor frame construction (V) principally of a right angled configuration for positioning on the ground and which is provided with an upright safety frame, being relatively high which forms a wall construction (W) for the purpose of keeping the public at a safe distance from an object and whereby the rear side of the upright wall construction (W) is shored with respect to the floor frame (V) by at least one shore (16, 17) under angled positioned whereof the top end is connected to the top side of the wall construction (W) and whereof the lower end is connected to the floor frame nearby the rear edge profile (2)

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35. Closed safety module fence construction, constructed from a number of mutually interlocked and being interconnected into a high fence of united safety module constructions according to anyone of the preceding claims 1-34.

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